

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

1                   1.       (Currently amended): An optical mouse system comprising ~~a printed~~  
2 ~~circuit board, the optical mouse system further comprising:~~  
3                   a printed circuit board having a plurality of circuits disposed thereon, including a  
4 detection circuit;  
5                   a contact pad comprising a plurality of stationary contacts disposed on a major  
6 surface of said printed circuit board ~~of said optical mouse system;~~  
7                   a ball contact movably disposed atop said stationary contacts of said contact pad;  
8 and  
9                   a housing enclosing said ball contact and a portion of said contact pad, said  
10 housing ~~sealably~~ disposed on said major surface of said printed circuit board ~~of said optical~~  
11 ~~mouse system~~ and encasing said ball and contact pad, at least two of said stationary contacts  
12 extending along said major surface beyond an interior of said housing from between said housing  
13 and said major surface~~[[; and]]~~.  
14                   [[a]]the detection circuit connected to said at least two of said stationary contacts  
15 ~~and having a trigger signal output.~~

2.       (Canceled)

1                   3.       (Previously presented): The system of claim 1, wherein said trigger  
2 signal output is a wake-up signal output.

4.       (Canceled)

1                   5.       (Previously presented): The system of claim 1, wherein said contact pad  
2 and said ball contact constitute a mechanical motion sensor.

1                   6.       (Previously presented): The system of claim 5, wherein said contact pad  
2   and said ball contact constitute a tilt sensor.

7-10.   (Canceled)

1                   11.       (Previously presented): The system of claim 1, wherein said at least one  
2   stationary contact is printed on said printed circuit board.

1                   12.       (Previously presented): The system of claim 1, wherein said at least one  
2   stationary contact has a hole in a center thereof.

1                   13.       (Previously presented): The system of claim 1, wherein the at least one  
2   stationary contact has an inclined surface toward a center thereof.

1                   14.       (Previously presented): The system of claim 6, wherein a sensitivity of  
2   said tilt sensor is adjustable during manufacture of said tilt sensor.

1                   15.       (Previously presented): The system of claim 6, wherein said contact pad  
2   has a hole in a center thereof, and a sensitivity of said tilt sensor is adjusted by a size of the hole.

1                   16.       (Previously presented): The system of claim 14, wherein the sensitivity of  
2   said tilt sensor is adjustable by a size of the ball contact.

1                   17.       (Previously presented): The system of claim 14, wherein the sensitivity of  
2   said tilt sensor is adjustable by a weight of the ball contact.

1                   18.       (Previously presented): The system of claim 14, wherein the sensitivity of  
2   said tilt sensor is adjustable by a conductivity of the ball contact.

19.       (Canceled)

1                   20.       (Previously presented): The system of claim 6, wherein the plurality of  
2   stationary contacts are wedge-shaped elements arranged about a central point.

- 1                   21.     (Previously presented): The system of claim 6, wherein there are at least 2  
2     stationary contacts.
- 1                   22.     (Withdrawn, previously presented): The system of claim 6, wherein there  
2     are at least 4 stationary contacts.
- 1                   23.     (Withdrawn, previously presented): The system of claim 6, wherein there  
2     are at least 6 stationary contacts.
- 1                   24.     (Withdrawn, previously presented): The system of claim 6, wherein there  
2     are at least 8 stationary contacts.
- 1                   25.     (Previously presented): The system of claim 6, wherein said ball contact  
2     is a conductive ball.
- 1                   26.     (Previously presented): The system of claim 6, wherein the ball contact is  
2     gold-plated.
- 1                   27.     (Previously presented): The system of claim 6, wherein said stationary  
2     contact is gold-plated.
- 1                   28.     (Original): The system of claim 1, wherein said motion sensor further  
2     includes a housing and said housing is sealed.
- 1                   29.     (Withdrawn): The system of claim 28, wherein said housing is sealed  
2     with an O-ring.
- 1                   30.     (Original): The system of claim 28, wherein said housing is sealed with  
2     an adhesive.

1                   31.     (Previously presented): The system of claim 1, wherein said contact pad  
2     and ball contact constitute an electrical switch and said detection circuit detects a change in a  
3     state of whether said switch is opened or closed.

1                   32.     (Previously presented): The system of claim 31, wherein said detection  
2     circuit comprises: a motion detector that determines if there is a change in the opened or closed  
3     state of the electrical switch; and a signal processing circuit having a latch circuit, wherein said  
4     latch circuit creates a signal of a particular level for a period of time to generate a wake-up  
5     signal.

33-35. (Canceled)

1                   36.     (Withdrawn): A method for operating an input device, wherein the  
2     device includes a printed circuit board, comprising:  
3                   operatively coupling a motion sensor to said printed circuit board, said motion  
4     sensor comprising:  
5                   a ball contact; and  
6                   at least one stationary contact formed directly on a surface of said printed circuit  
7     board of said device,  
8                   wherein said ball contact is in electrical contact with said at least one stationary  
9     contact;  
10                  outputting a motion signal from said motion sensor;  
11                  providing a detection circuit responsive to said motion signal; and  
12                  outputting a wake-up signal from said detection circuit to circuitry of said input  
13     device to activate said input device.

1                   37.     (Withdrawn): The method of claim 36, wherein said input device further  
2     comprises a microprocessor and said microprocessor wakes-up the input device in response to  
3     said wake-up signal from said detection circuit.

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38. (Canceled)